

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1 to 4 (cancelled)

Claim 5 (currently amended) An electronic switching module that can directly be mounted instead of an electromagnetic DC relay used in various vehicles ; the electronic switching module comprising a plastic casing (1) protecting said electronic switching module against the external environmental conditions, an electronic circuit including a drive circuit (7); a semiconductor switch in the form of discrete transistor (3); and a printed circuit card (4) on which the electronic circuit elements are arranged; an aluminum block (2) closing the periphery of the electronic circuit and preventing overheating of the electronic circuit, a cover (5) wherein said printed circuit card (4) is placed and contacts (6) that are mounted to the cover (5) to provide the connection to the power circuit; ~~The electronic switching module according to claim 1~~ wherein the electronic circuit comprises the drive circuit (7) comprising a triggering DC source (8); a resistance (R_{10}), a LO (14), a diode (Q_{10}) and a second resistance (R_{11}) all connected in series to said source and a capacitor (C_{10}) connected in parallel to all these, and a chassis (frame) (13); a transistor (3) which is connected to the drive circuit (7) from its inlet (gate) end (9); a resistance (R_{12}), the DC source (drain) (10) end of the transistor (3) of which is connected to the source (11) end of the transistor; and a load (L_{10}).

Claim 6 (currently amended) The electronic switching module according to ~~claim 1~~

claim 5, wherein the electronic circuit comprises the drive circuit (7) comprising a resistance (R_{20}) connected in series to a triggering DC source, a transistor (T_{20}) and diode (Q_{20}) connected to each other in parallel which are in turn connected to said resistance in series, a frame (13) connecting them to the ground and a diode (Q_{21}) connected in series to them; a diode (Q_{22}), a transistor (10) and a resistance (R_{21}) connected to each other in parallel which are in turn connected to said driving circuit (7) in series, a triggering DC source (8) feeding said circuit and a diode (Q_{23}) and a load (L_{20}) connected to each other in parallel, which connect them to the frame (13).

Claim 7 (currently amended) The electronic switching module according to ~~claim 1~~ claim 5, wherein the electronic circuit comprises a transistor (10) and two resistances (R_{31}, R_{32}) connected to each other in parallel which are in turn connected to said resistance, and a frame (13) which connects the above components to the ground.

Claim 8 (currently amended) The electronic switching module according to ~~claim 1~~ claim 5, wherein the printed circuit card (4) comprises an electronic circuit wherein more than one LO and more than one simultaneously operating transistor, are used in order to obtain higher current values in the power circuit.

Claim 9 (currently amended) The electronic switching module according to ~~claim 1~~ claim 5, wherein the electronic circuit comprises a single drive circuit including

simultaneously operating LO's and more than one power circuit activated by being connected in parallel, wherein said module is used as a switch.

Claim 10 – 12 (cancelled)

Claim 13 (currently amended) An electronic switching module that can directly be mounted instead of an electromagnetic DC relay used in various vehicles; the electronic switching module comprising a plastic casing (1) protecting said electronic switching module against the external environmental conditions and wherein the plastic casing (1) is provided with a row of perforations to allow heat transfer, an electronic circuit including a drive circuit (7); a semiconductor switch in the form of discrete transistor (3); and a printed circuit card (4) on which the electronic circuit elements are arranged; an aluminum block (2) closing the periphery of the electronic circuit and preventing overheating of the electronic circuit, a cover (5) wherein said printed circuit card (4) is placed and contacts (6) that are mounted to the cover (5) to provide the connection to the power circuit, ~~The electronic switching module according to claim 10,~~ wherein the electronic circuit comprises the drive circuit (7) comprising a triggering DC source (8); a resistance (R_{10}), a LO (14), a diode (Q_{10}) and a second resistance (R_{11}) all connected in series to said source and a capacitor (C_{10}) connected in parallel to all these, and a chassis (frame) (13); a transistor (3) which is connected to the drive circuit (7) from its inlet (gate) end (9); a resistance (R_{12}), the DC source (drain) (10) end of the transistor (3) of which is connected to the source (11) end of the transistor; and a load (L_{10}).

Claim 14 (currently amended) The electronic switching module according to ~~claim 10~~ claim 13, wherein the electronic circuit comprises the drive circuit (7) comprising a resistance (R_{20}) connected in series to a triggering DC source, a transistor (T_{20}) and diode (Q_{20}) connected to each other in parallel which are in turn connected to said resistance in series, a frame (13) connecting them to the ground and a diode (Q_{21}) connected in series to them; a diode (Q_{22}), a transistor (10) and a resistance (R_{21}) connected to each other in parallel which are in turn connected to said driving circuit (7) in series, a triggering DC source (8) feeding said circuit and a diode (Q_{23}) and a load (L_{20}) connected to each other in parallel, which connect them to the frame (13).

Claim 15 (currently amended) The electronic switching module according to ~~claim 10~~ claim 13, wherein the electronic circuit comprises a transistor (10) and two resistances (R_{31}, R_{32}) connected to each other in parallel which are in turn connected to said resistance, and a frame (13) which connects the above components to the ground.

Claim 16 (currently amended) The electronic switching module according to ~~claim 10~~ claim 13, wherein the printed circuit card (4) comprises an electronic circuit wherein more than one LO and more than one simultaneously operating transistor, are used in order to obtain higher current values in the power circuit.

Claim 17 (currently amended) The electronic switching module according to ~~claim 10~~ claim 13, wherein the electronic circuit comprises a single drive circuit including simultaneously operating LO's and more than one power circuit activated by being connected in parallel, wherein said module is used as a switch.

Claim 18 – 19 (cancelled)

Claim 20 (currently amended) An electronic switching module that can directly be mounted instead of an electromagnetic DC relay used in various vehicles; the electronic switching module comprising a plastic casing (1) protecting said electronic switching module against the external environmental conditions and wherein the plastic casing (1) is provided with a row of perforations to allow heat transfer, an electronic circuit including a drive circuit (7); a semiconductor switch in the form of discrete transistor (3); and a printed circuit card (4) on which the electronic circuit elements are arranged; an aluminum block (2) closing the periphery of the electronic circuit and preventing overheating of the electronic circuit and wherein the aluminum block (2) is a prismatic aluminum block with fins provided on it, in order to transfer to outside the heat created in the circuit more rapidly, a cover (5) wherein said printed circuit card (4) is placed and contacts (6) that are mounted to the cover (5) to provide the connection to the power circuit, wherein the electronic circuit comprises the drive circuit (7) comprising a triggering DC source (8); a resistance (R_{10}), a LO (14), a diode (Q_{10}) and a second resistance (R_{11}) all connected in series to said source and a capacitor (C_{10}) connected in

parallel to all these, and a chassis (frame) (13); a transistor (3) which is connected to the drive circuit (7) from its inlet (gate) end (9); a resistance (R_{12}), the DC source (drain) (10) end of the transistor (3) of which is connected to the source (11) end of the transistor; and a load (L_{10}).